



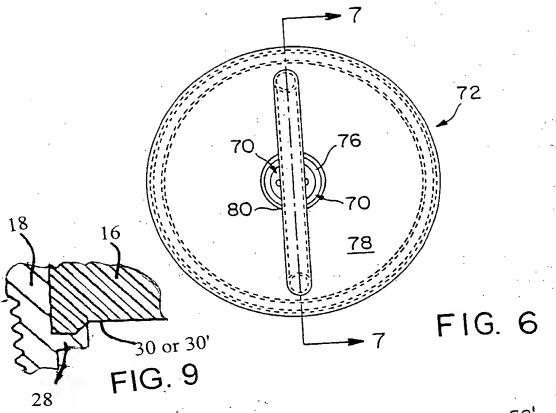
Media	Concen- tration, % by weight	Test Temperature	Average Corrosion Rate per year, mils**			
		°F (°C)		C-276 alloy		625 alloy
Acetic Acid	99	Boiling	Nil	<1	Nil	<1
Ferric Chloride	10	Boiling	1	2	140	7325
Formic Acid	88	Boilng	<1	1	2	9
Hydrochloric Acid	1	Boiling	3	13	25	1
	1.5	Boiling	14	32	64	353
		194 (90)	Nil	1	31	Nil
		Boiling	61	51	82	557
	2.5	194 (90)	<1	12	34	72
	2.5	Boiling	141	85	44	605
	10	Boiling	400	288	228	642
Hydrochloric Acid	1	200 (93)	2	41		238
+42 g/l Fe ₂ (SO ₄) ₃	5	150 (66)	2	5	3	2
Hydrochloric Acid +2% HF	5	158 (70)	59	26	34	123
Hydrofluoric Acid	2	158 (70)	9	9	17	20
	5	158 (70)	14	10	15	16
P2O5 (Commercial Grade)	38	185 (85)	2	9		1_
	44	240 (116)	21	100		23
	52	240 (116)	11	33	_	12
P ₂ O ₅ + 2000 ppm Cl	38	185 (85)	1	12	_	2
P ₂ O ₅ + 0.5% HF	38	185 (85)	7	45	-	9
Nitric Acid	10	Boiling	<1	7	7	<1
	65	Boiling	134	888	217	21
Nitric Acid+ 6% HF	5	140 (60)	67	207	204	73
Nitric Acid+ 25% H2SO4+ 4% NaCl	5	Boiling	12	64	97	713
Nitric Acid+ 1% HCI	5	Boiling	<1	8	11	1
Nitric Acid+ 2.5% HCI	5	Boiling	2	21	26	<1
Nitric Acid+ 15.8% HCl	8.8	126 (52)	4	33	114	>10,000

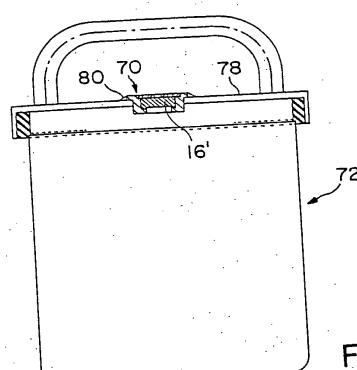
FIG. 5

^{*}Average of 4-10 tests.

**To convert mils per year (mpy) to mm per year, divide by 40.







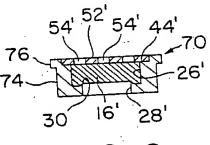


FIG. 8

FIG. 7